



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D2652
Job Sheet 187670



Part No: D2652

Job Qty: 200 pcs

Part Name: Bushing



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 12/11/18

Job Tracking No:

Due Date: 1/16/19

Created By: Jesse White

Type: SOLD

Description:

Note: DWG REV A IPP Rev:B 02.06.13 Now machined in house. NG

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Hardinge - 1	200 pcs	1/16/19	1/16/19	0.00	7.36	Hardinge - 1		JSD 1/11/28
110	QC 2	200 pcs	1/16/19	1/16/19	0.00	0.00	QC 2 - 1		
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		JSD 1/11/28
							QC 2 - 33		3.C-L
							QC 2 - 35		
							QC 2 - 38		
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		
							QC 2 - 50		
							QC 2 - 51		
							QC 2 - 52		
							QC 2 - 54		
							QC 2 - 56		
							QC 2 - 57		
							QC 2 - 62		
							QC 2 - 63		
							QC 2 - 8		

120 QC 8	200 pcs	1/16/19	0.00 0.00	QC 8 - 12	
				QC 8 - 14	
				QC 8 - 17	
				QC 8 - 20	
				QC 8 - 25	
				QC 8 - 3	
				QC 8 - 32	
				QC 8 - 33	
				QC 8 - 35	
				QC 8 - 38	
				QC 8 - 39	
				QC 8 - 4	
				QC 8 - 44	
				QC 8 - 45	
				QC 8 - 49	
				QC 8 - 58	
				QC 8 - 8	
				QC 8 - 9	
				QC 8 - 68	
				QC 8 - 67	
				QC 8 - 1 (A)	
130 Packaging 3-1 - Stock - B4B	200 pcs	1/16/19	0.00 0.00	Packaging 3 - 1 - B4B	
				Packaging 3 - 2 - B4B	
				Packaging 3 - 3 - B4B	
				Packaging 3 - 4 - B4B	
				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	5009 21 JAN 30 2019
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
140 QC 21 - SA	200 pcs	1/16/19	0.00 0.00	QC 21 - SA - 21	DAS 21 3-65 JAN 30 2019
				QC 21 - SA - 70	

Part Op **100** - (Hardinge) 1-TURN AS PER FOLIO FA252 & DWG D2652
 Descriptions: **110** - (QC2- Inspect parts off machine FAI/FAIB)
120 - (QC8- Inspect parts - second check)
130 - (Identify as per dwg & Stock Location: _____)
140 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M303R0.500	303 Round Bar 0.500"	11 ft (.055 ea)	100-Hardinge - 1	S123 401

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Hardinge - 1	M303R0.500	11	19	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Bushing	0.600inches ± 0.010	0.610 0.590		
2	Bushing	0.060inches ± 0.005	0.065 0.055		
3	Bushing	0.305inches + 0.000 - 0.002	0.305 0.303		
4	Bushing	0.191inches + 0.005 - 0.001	0.196 0.190		
5	Bushing	0.500inches ± 0.010	0.510 0.490		
6	Bushing	0.030inches ± 0.010	0.040 0.020		
7	Bushing	20.000Degrees ± 0.010	20.010 19.990		
8	Bushing	0.010inches + 0.010 - 0.000	0.020 0.010		

Plex 1/25/19 12:57 PM Dart.Hadley.Shannon



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					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	200 Ea		1/16/19	0.00	0.00	Start Up Machining-1		
100	Hardinge	200 pcs		1/16/19	0.00	7.36	Hardinge		
110	QC	200 pcs		1/16/19	0.00	0.00	QC2 Machining-5		
120	QC	200 pcs		1/16/19	0.00	0.00	QC8		
130	Packaging	200 pcs		1/16/19	0.00	0.00	Packaging3-1		
140	QC21-SA	200 Ea		1/16/19	0.00	0.00	QC21		

Part Op
Descriptions: **100** - 1-TURN AS PER FOLIO FA252 & DWG D2652

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M303R0.500	303 Round Bar 0.500"	11 ft (.055 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	M303R0.500	11	67	0

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					

Part Specifications					
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Plex 12/11/18 12:56 PM dart.white.jesse

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rewor ☐ Scra ☐ Use-as- ☐	<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width:12.5%;">Department/Process</td> <td style="width:12.5%;">Cross tube</td> <td style="width:12.5%;">Eng. (Non-AW)</td> <td style="width:12.5%;">Engineering</td> </tr> <tr> <td>Material</td> <td>Small Lab</td> <td>Prod. Eng. Coord.</td> <td>Water Jet</td> </tr> <tr> <td>Large Lab</td> <td>Finishing</td> <td>Part/Store/Packaging</td> <td>Supplier Quality</td> </tr> </table>		Department/Process	Cross tube	Eng. (Non-AW)	Engineering	Material	Small Lab	Prod. Eng. Coord.	Water Jet	Large Lab	Finishing	Part/Store/Packaging	Supplier Quality																																
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Date : _____	Sequence #: _____	Dart Aerospace Ltd. 1270 Aberdeen Street Hewesbury, ON K6A 1K7 CANADA TEL: 1 813 632-5200 Email: sales@dartaero.com www.dartaerospace.com Container No: S148412 Part: D2652 Job No: 187670 Serial No/Batch: S148412 Revision: _____ Inspector: _____ Exp Date: _____ Instructions: Various STC's Date: 01/25/19																																													
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Root Cause <table style="width:100%;"> <tr><td>Operator</td><td>☐</td></tr> <tr><td>Manufacturing Process</td><td>☐</td></tr> <tr><td>Equip/Tooling</td><td>☐</td></tr> <tr><td>Handling/Preservation</td><td>☐</td></tr> <tr><td>Material</td><td>☐</td></tr> <tr><td>Product Improvement</td><td>☐</td></tr> <tr><td>Process Improvement</td><td>☐</td></tr> <tr><td>Human Factors</td><td>☐</td></tr> </table>	Operator	☐	Manufacturing Process	☐	Equip/Tooling	☐	Handling/Preservation	☐	Material	☐	Product Improvement	☐	Process Improvement	☐	Human Factors	☐	FAULT CATEGORY <table style="width:100%;"> <tr> <td>☐ Pressure/Forced</td> <td>☐ Contamination</td> <td>☐ Power Loss/Surge</td> <td>☐ Positioned Wrong</td> </tr> <tr> <td>☐ Bending</td> <td>☐ Misaligned/off center</td> <td>☐ Folio/Program</td> <td>☐ Outside Tolerance</td> </tr> <tr> <td>☐ Crushing</td> <td>☐ BOM/Route</td> <td>☐ Grain Direction</td> <td>☐ Drawing</td> </tr> <tr> <td>☐ Cracks</td> <td>☐ Broken/Damage/Defect</td> <td>☐ Weld</td> <td>☐ Finish</td> </tr> <tr> <td>☐ Crimp/Kink/Ripple/Wave/Twist</td> <td>☐ Incomplete/Unclear Instructions</td> <td>☐ Wrong Stock Pulled</td> <td>☐ Part Lost/Missing</td> </tr> <tr> <td>☐ Marks/Chatter</td> <td>☐ Drill Holes</td> <td>☐ Out of Sequence</td> <td>☐ Misread</td> </tr> <tr> <td>☐ Mislabeled</td> <td>☐ Fit/Function</td> <td>☐ Off-set/Set-up</td> <td></td> </tr> </table>			☐ Pressure/Forced	☐ Contamination	☐ Power Loss/Surge	☐ Positioned Wrong	☐ Bending	☐ Misaligned/off center	☐ Folio/Program	☐ Outside Tolerance	☐ Crushing	☐ BOM/Route	☐ Grain Direction	☐ Drawing	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Finish	☐ Crimp/Kink/Ripple/Wave/Twist	☐ Incomplete/Unclear Instructions	☐ Wrong Stock Pulled	☐ Part Lost/Missing	☐ Marks/Chatter	☐ Drill Holes	☐ Out of Sequence	☐ Misread	☐ Mislabeled	☐ Fit/Function	☐ Off-set/Set-up	
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